



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 373-0502

Dirk Kempthorne, Governor
C. Stephen Allred, Director

November 7, 2002

Certified Mail No. 7099 3220 0009 1975 6797

Jay Ulrich
Environmental Control Supervisor
McCain Foods, Inc.
P.O. Box 10
Burley, ID 83318

RE: AIRS Facility No. 031-00014, McCain Foods Inc., Burley
Final Tier II Operating Permit and Permit to Construct

Dear Mr. Ulrich:

The Department of Environmental Quality (Department) is issuing Tier II Operating Permit and Permit to Construct No. 031-00014, for the McCain Foods Inc. facility, in accordance with the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.400 - 470 and 58.01.01.200 - 228, respectively.

The enclosed permit is effective immediately and is based on the information contained in your permit application and all relevant comments received during the public comment period.

Steve VanZandt of the Twin Falls Regional Office will contact you regarding a meeting with the Department to discuss the permit terms and requirements. The Department recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

You, as well as any other entity, may have the right to appeal this final agency action pursuant to IDAPA 58.01.23, *Rules of Administrative Procedure Before the Board of Environmental Quality*. A petition may be filed with the Hearings Coordinator, Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255 within 35 days of the date of this decision. However, prior to filing a petition for a contested case, the Department encourages you to call Mike Simon at (208) 373-0502 to address any questions or concerns you may have with the enclosed permit.

Sincerely,


Katherine B. Kelly
Administrator
Air Quality Division

Enclosure

KK/KB/sm Project No. T2-020400 G:\Air Quality\Stationary Source\SS Ltd\T2\Mccain Foods\Final Permit\Final McCain Ltr.Doc

cc: Laurie Kral, EPA Region 10
Steve VanZandt, Twin Falls Regional Office



**Air Quality
TIER II OPERATING PERMIT
and
PERMIT TO CONSTRUCT**

**State of Idaho
Department of Environmental Quality**

PERMIT NO.: 031-00014

AQCR: 64

CLASS: SM

SIC: 2037

ZONE: 12

UTM COORDINATE (km): 266.7, 4, 712.8

1. PERMITTEE

McCain Foods, Inc.

2. PROJECT

Facility-Wide Tier II operating permit and permits to construct

3. MAILING ADDRESS

P.O. Box 10

CITY

Burley

STATE

ID

ZIP

83318

4. FACILITY CONTACT

Jay Ulrich

TITLE

Environmental Control Supervisor

TELEPHONE

(208) 678-6729

5. RESPONSIBLE OFFICIAL

Norman H. Rayburn

TITLE

Plant Manager

TELEPHONE

(208) 678-6729

6. EXACT PLANT LOCATION

218 W. Highway 30

COUNTY

Cassia

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Production of frozen food (potato) products

8. PERMIT AUTHORITY

This permit is issued according to the *Rules for the Control of Air Pollution in Idaho, (Rules) IDAPA 58.01.01.200 - 228 and IDAPA 58.01.01.400 - 470* respectively. This permit pertains only to emissions of air contaminants, regulated by the state of Idaho and to the sources specifically allowed to be operated by this permit.

This permit is not transferable to another person, place, or piece or set of equipment. This permit will expire if construction has not yet begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented in the application and the Idaho Department of Environmental Quality's (Department) technical analysis of the supplied information. Changes in design or equipment that result in any change in the nature or amount of emissions may be a modification. Modifications are subject to Department review in accordance with Section 58.01.01.200.

**KATHERINE B. KELLY, ADMINISTRATOR, AIR QUALITY DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY**

DATE ISSUED: November 7, 2002

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ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURES

ASTM	American Society for Testing and Materials
AQCR	Air Quality Control Region
CFR	Code of Federal Regulations
CO	carbon monoxide
Department	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	Environmental Protection Agency
gpm	gallons per minute
gr	grain (1 lb = 7,000 grains)
IDAPA	A numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pound per hour
MMBtu/hr	million British thermal units per hour
NAAQS	National Ambient Air Quality Standards
NO _x	nitrogen oxides
O&M	operations and maintenance
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
MMscf/yr	million standard cubic feet per year
SIC	Standard Industrial Classification
SO ₂	sulfur dioxide
T/day	T/day
T/yr	tons per year
UTM	Universal Transverse Mercator
VOC	volatile organic compound

AIR QUALITY TIER II OPERATING AND PERMIT TO CONSTRUCT NUMBER: 031-00014

Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

1. PERMIT SCOPE**Purpose**

- 1.1 This permit establishes state and federally enforceable requirements which limit emissions to below Title V permitting levels.
- 1.2 This permit incorporates and replaces the following permit:
- PTC No. 0440-0014, issued August 19, 1982; and modified June 25, 1985

Regulated Sources

- 1.3 Table 1.1 below lists all sources of emissions that are regulated in this permit.

Table 1.1 SUMMARY OF REGULATED SOURCES

Permit Sections	Source Description	Emissions Control(s)
3	(B101) Murray 1 boiler, model: mcf4-78, 100 MMBtu/hr, natural gas	None
3	(B102) Nebraska 1 boiler, Model: NS-E-68, 95.58 MMBtu/hr, natural gas	None
3	(B202) Nebraska 2 boiler, Model: NS-E-57, 78.05 MMBtu/hr, natural gas	None
3	(B203) Murray 2 boiler, Model: MCF2-38, 39.1 MMBtu/hr, natural gas	None
4	(D105 & D106) Prime 1 dryer, National Model: 59473, 14 MMBtu/hr, direct-fired dryer, natural gas	None
4	(D107) Tot dryer, Rey Industries, 4 MMBtu/hr, direct-fired dryer, natural gas	None
4	(D205 - D208) Prime 2 dryer, National, 48 MMBtu/hr, direct-fired dryer, natural gas	None
5	(F103) Tot fryer, Shockey Model: Ore-Ida	Air washer, Rey Industries Model: G12/24, 20 gpm
5	(F104) Prime 1 fryer, Shockey Model: Ore-Ida	Air washer, Ore-Ida, 20 gpm
5	(F108) Parfry fryer, Idaho Steel Products Model: Ore-Ida	Air washer, Rey Industries, 20 gpm
5	(F204) Prime 2 fryer, heat and control	Air washer, Ore-Ida, 20 gpm
6	(E209) Batter Room collector	Dust collector
7	(E001) Emergency fire pump, Detroit Diesel Model: 6061-A2, No. 1 or No. 2 fuel oil	None

Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

2. FACILITY-WIDE CONDITIONS

Fugitive Emissions

- 2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and activities and atmospheric conditions that might affect the movement of PM. Some of the reasonable precautions include, but are not limited to, the following:
- Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands.
 - Application, where practical, of asphalt, oil, water or suitable chemicals to, or covering of dirt roads, material stockpiles, and other surfaces which can create dust.
 - Installation and use, where practical, of hoods, fans and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.
 - Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
 - Paving of roadways and their maintenance in a clean condition, where practical.
 - Prompt removal of earth or other stored material from streets, where practical.
- [IDAPA 58.01.01.650-651, 5/1/94]**
- 2.2 Unless specified elsewhere in this permit, the permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.
- [IDAPA 58.01.01.405.01, 5/1/94]**
- 2.3 Unless specified elsewhere in this permit, the permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
- [IDAPA 58.01.01.405.01, 5/1/94]**
- 2.4 Unless specified elsewhere in this permit, the permittee shall conduct quarterly facility-wide inspections of potential sources of fugitive emissions, during daylight hours and under normal operating conditions, to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each quarterly fugitive emission inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.
- [IDAPA 58.01.01.405.01, 5/1/94]**

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Location: Burley, Idaho

Date Issued: November 7, 2002

Odors

- 2.5 No person shall allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.
[IDAPA 58.01.01.775-776, 5/1/94]
- 2.6 Unless specified elsewhere in this permit, the permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.
[IDAPA 58.01.01.405.01, 5/1/94]

Visible Emissions

- 2.7 No person shall discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, NO_x, and/or chlorine gas are the only reason(s) for the failure of the emission to comply with the requirements of this section.
[IDAPA 58.01.01.625, 5/1/94]
- 2.8 Unless specified elsewhere in this permit, the permittee shall conduct a quarterly facility-wide inspection of potential sources of visible emissions during daylight hours and under normal operating conditions. The inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in its annual compliance certification and in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each quarterly visible emission inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed) any corrective action taken in response to the visible emissions, and the date corrective action was taken.
[IDAPA 58.01.01.405.01, 5/1/94]

Excess Emissions

- 2.9 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets, and breakdowns.
[IDAPA 58.01.01.130-136, 4/5/00]

Open Burning

- 2.10 The permittee shall comply with the requirements of IDAPA 58.01.01.600-616, *Rules for Control of Open Burning*.
[IDAPA 58.01.01.600-616, 5/1/94]

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Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

Fuel-Burning Equipment

- 2.11 The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid, 0.050 gr/dscf of effluent gas corrected to 8% oxygen by volume for coal, and 0.080 gr/dscf of effluent gas corrected to 8% oxygen by volume for wood products.

[IDAPA 58.01.01.676-677, 5/1/94]

Sulfur Content

- 2.12 No person shall sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:

- ASTM Grade No. 1 fuel oil - 0.3% by weight.
- ASTM Grade No. 2 fuel oil - 0.5% by weight.
- Residual fuel oil (ASTM Grade 4, 5, and 6) – 1.75% by weight

[IDAPA 58.01.01.728, 5/1/94]

- 2.13 The permittee shall maintain documentation of supplier verification of distillate fuel oil content on an as-received basis.

[IDAPA 58.01.01.405.01, 5/1/94]

Air Stagnation Advisory Days

- 2.14 The permittee shall comply with the Air Pollution Emergency Rules in IDAPA 58.01.01.550 through 562.

[IDAPA 58.01.01.550, 5/1/94]

Monitoring and Recordkeeping

- 2.15 The permittee shall maintain sufficient recordkeeping to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to Department representatives upon request.

[IDAPA 58.01.01.405.01, 5/1/94]

AIR QUALITY TIER II OPERATING AND PERMIT TO CONSTRUCT NUMBER: 031-00014

Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

Reports and Certifications

- 2.16 Any reporting required by this permit, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following:

Air Quality Permit Compliance
Department of Environmental Quality
Twin Falls Regional Office
601 Pole Line Road
Twin Falls, ID 83301

[IDAPA 58.01.01.123, 5/1/94; IDAPA 58.01.01.405.01, 5/1/94]

AIR QUALITY TIER II OPERATING AND PERMIT TO CONSTRUCT NUMBER: 031-00014

Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

3. BOILERS

3.1 Process Description

Four natural gas-fired boilers are used to generate steam for the manufacturing process. Two of the units, the Murray 1 boiler and the Nebraska 1 boiler, are located in Burley Plant 1. The Murray 1 boiler has a maximum heat input capacity of 100 MMBtu/hr. The Nebraska 1 boiler has a maximum heat input capacity of 95.58 MMBtu/hr. The remaining two boilers, the Nebraska 2 boiler and the Murray 2 boiler, are located in Burley Plant 2. The Nebraska 2 boiler has a maximum heat input capacity of 78.05 MMBtu/hr. The Murray 2 boiler has a maximum heat input capacity of 39.1 MMBtu/hr.

3.2 Control Description

Emissions from all the boilers are uncontrolled.

Table 3.1 EMISSIONS UNIT DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point
Murray 1 boiler	None	B101
Nebraska 1 boiler	None	B102
Nebraska 2 boiler	None	B202
Murray 2 boiler	None	B203

Emissions Limits

3.3 Emissions Limits

Particulate matter, PM₁₀, SO₂, NO_x, CO, and VOC emissions from the boiler stacks (B101, B102, B202, B203) shall not exceed any corresponding emissions rate limits listed this permit.

Operating Requirements

3.4 Fuel Usage Limits

The collective natural gas consumption of the boilers shall not exceed 1,100 MMscf/yr for any consecutive 12-month period.

[IDAPA 58.01.01.401.01, 4/5/00]

3.5 Fuel Meter

Within 180 days of the issuance of the permit, the permittee shall install, calibrate, maintain, and operate a natural-gas flow meter to monitor the monthly and annual natural gas usage of the boilers, collectively.

[IDAPA 58.01.01.405.01, 5/1/94]

AIR QUALITY TIER II OPERATING AND PERMIT TO CONSTRUCT NUMBER: 031-00014

Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

3.6 Fuel Type

All the boilers, with a maximum total rated heat input capacity of 313 MMBtu/hr shall be fueled on natural gas exclusively.

[IDAPA 58.01.01.405.01, 5/1/94]

Monitoring and Recordkeeping Requirements

3.7 Monitor Operating Parameters

The permittee shall record the following parameters to demonstrate compliance with the natural gas usage requirements for the boilers at the facility:

- Calendar date and total amount of natural gas burned, in standard cubic feet per month, by the four boilers, collectively.
- Calendar date and amount of natural gas burned, in standard cubic feet for any consecutive 12-month period, by the four boilers, collectively.

[IDAPA 58.01.01.405.01, 5/1/94]

AIR QUALITY TIER II OPERATING AND PERMIT TO CONSTRUCT NUMBER: 031-00014

Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

4. DRYERS

4.1 Process Description

McCain Foods currently operates two process lines for Prime Products, one in each plant. Dryers are utilized to reduce the moisture content of the potato products prior to frying. The two dryers that are operated in conjunction with the Prime Products lines are as follows: the Prime 1 dryer (Burley Plant 1) and the Prime 2 dryer (Burley Plant 2). Both of these units are direct-fired dryers that are fueled by natural gas. The Prime 1 dryer vents directly to the atmosphere via two separate stacks (D105, D106). The Prime 2 dryer vents to the atmosphere through four separate stacks (D205 – D208). Tater Tots are manufactured in Burley Plant 1. The Tot dryer is a direct, natural gas-fired dryer that removes moisture from the potatoes. The Tot dryer vents directly to the atmosphere via a vertical stack (D107).

4.2 Control Description

Emissions from the Prime Product dryers are uncontrolled.

Table 4.1 EMISSIONS UNIT DESCRIPTION

Emissions Unit(s) /Process(es)	Emissions Control Device	Emissions Point
Prime 1 dryer	None	D105, D106
Prime 2 dryer	None	D205, D206, D207, D208
Tot dryer	None	D107

Emissions Limits

4.3 Emissions Limits

Particulate matter, PM₁₀, SO₂, NO_x, CO, and VOC emissions from the dryer stacks (D105, D106, D205, D206, D207, D208, D107) shall not exceed any corresponding emissions rate limits listed in this permit.

Operating Requirements

4.4 Throughput Limits

- The maximum throughput of the Prime 1 dryer shall not exceed 642 T/day of finished potato product based on a monthly average. The maximum annual throughput of the Prime 1 dryer shall not exceed 173,340 tons of finished potato product per any consecutive 12-month period.
- The maximum throughput of the Prime 2 dryer shall not exceed 540 T/day of finished potato product based on a monthly average. The maximum annual throughput of the Prime 2 dryer shall not exceed 145,800 tons of finished potato product per any consecutive 12-month period.
- The maximum throughput of the Tot dryer shall not exceed 192 T/day of finished potato product based on a monthly average. The maximum annual throughput of the Tot dryer shall not exceed 51,840 tons of finished potato product per any consecutive 12-month period.

[IDAPA 58.01.01.401, 5/1/94]

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Permittee: McCain Foods Inc.

Date Issued: November 7, 2002

Location: Burley, Idaho

4.5 Fuel Usage Limits

- The maximum combustion of natural gas in the Tot dryer shall not exceed 30 MMscf/yr for any consecutive 12-month period.
- The maximum combustion of natural gas in the Prime 1 dryer shall not exceed 75 MMscf/yr for any consecutive 12-month period.
- The maximum combustion of natural gas in the Prime 2 dryer shall not exceed 120 MMscf/yr for any consecutive 12-month period.

[IDAPA 58.01.01.401.01, 4/5/00]

4.6 Fuel Meter

Within 180 days of the issuance of the permit, the permittee shall install, calibrate, maintain, and operate a natural-gas flow meter to monitor the monthly and annual natural gas usage for each of the following dryers: Prime 1 dryer, Prime 2 dryer, and Tot dryer.

[IDAPA 58.01.01.405.01, 5/1/94]

4.7 Fuel Type

The dryers shall be fueled on natural gas exclusively.

[IDAPA 58.01.01.405.01, 5/1/94]

Monitoring and Recordkeeping Requirements

4.8 Throughput Monitoring

Each month, the permittee shall monitor and record the daily average throughput of the Prime 1 dryer, Prime 2 dryer, and Tot dryer for the previous month and for the most recent 12-month period. The throughput shall be measured at the packaging step of each process line and shall take into account product that has been manufactured during the 24-hour period.

[IDAPA 58.01.01.405.01, 5/1/94]

4.9 Monitor Operating Parameters

The permittee shall record the following parameters to demonstrate compliance with the natural gas usage requirements for the Prime 1 dryer, Prime 2 dryer, and Tot dryer at the facility.

- Calendar date and total amount of natural gas burned, in standard cubic feet per month or therms per month, by the Prime 1 dryer, Prime 2 dryer, and Tot dryer.
- Calendar date and amount of natural gas burned, in standard cubic feet per year or therms per year for any consecutive 12-month period, by the Prime 1 dryer, Prime 2 dryer, and Tot dryer.

[IDAPA 58.01.01.405.01, 5/1/94]

AIR QUALITY TIER II OPERATING AND PERMIT TO CONSTRUCT NUMBER: 031-00014

Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

5. FRYERS**5.1 Process Description**

After being dried, the potato products are conveyed to the fryers in which they are cooked in hot vegetable oil. The two fryers used for Prime Products are as follows: Prime 1 fryer (Burley Plant 1) and the Prime 2 fryer (Burley Plant 2). The fryers are heated by steam. Each fryer is equipped with an air washer that is essentially a spray-chamber scrubber. In the air washer, exhaust from the fryer is passed through a chamber and contacted with a water spray that saturates the air stream. This allows the PM to attach to the water droplets. The water droplets carrying the PM are separated from the exhaust stream by a bank of stainless steel eliminator blades. The Prime 1 fryer air washer vents to the atmosphere through a single vertical stack (F104). The Prime 2 fryer air washer vents to the atmosphere through a single vertical stack (F204). The tots are conveyed to the Tot fryer in which they are cooked in hot vegetable oil. The fryer is heated by steam. The fryer is equipped with an air washer that removes PM from the exhaust stream. The Tot fryer air washer vents to the atmosphere through a single vertical stack (F103). The parfry patties are cooked in the Parfry fryer. The fryer is heated by steam. The fryer is equipped with an air washer that removes PM from the exhaust stream. The Parfry fryer air washer vents to the atmosphere through a single vertical stack (F108).

5.2 Control Description

Emissions from the Prime dryers are uncontrolled.

Table 5.1 EMISSIONS UNIT DESCRIPTION

Emissions Unit(s)/ Process(es)	Emissions Control Device	Emissions Point
Prime 1 fryer	Air washer	F104
Prime 2 fryer	Air washer	F204
Tot fryer	Air washer	F103
Parfry fryer	Air washer	F108

Emissions Limits**5.3 Emissions Limits**

Particulate matter, PM₁₀, and VOC emissions from the fryer stacks (F104, F204, F103, F108) shall not exceed any corresponding emissions rate limits listed in this permit.

Operating Requirements**5.4 Throughput Limits**

- The maximum throughput of finished potato product for the Prime 1 fryer shall not exceed 642 T/day based on a monthly average, or 173,340 tons for any consecutive 12-month period.

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Date Issued: November 7, 2002

Location: Burley, Idaho

- The maximum throughput of finished potato product for the Prime 2 fryer shall not exceed 540 T/day based on a monthly average, or 145,800 tons for any consecutive 12-month period.
- The maximum throughput of finished potato product for the Tot fryer shall not exceed 192 T/day based on a monthly average, or 51,840 tons for any consecutive 12-month period.
- The maximum throughput of finished potato product for the Parfry fryer shall not exceed 61.2 T/day based on a monthly average, or 16,524 tons for any consecutive 12-month period.

[IDAPA 58.01.01.401, 5/1/94]

5.5 Air Pollution Control Equipment

The fan and the spray-water pump associated with each air washer shall be operated per the instructions provided in the O&M manual. The pressure at the header of the air washer shall also be set per the specifications identified in the O&M manual by adjusting the pump discharge valve.

The air-washer system shall be maintained on a routine basis in accordance with the schedule recommended in the O&M manual. Maintenance activities shall include, but not be limited to, the following: cleaning and replacing the spray-water nozzles, pressure pump maintenance, and cleaning the eliminator blades.

[IDAPA 58.01.01.405.01, 5/1/94]

Monitoring and Recordkeeping Requirements

5.6 Throughput Monitoring

Each month, the permittee shall monitor and record the daily average throughput of Prime 1 fryer, Prime 2 fryer, Tot fryer, and Parfry fryer for the previous month and for the most recent 12-month period. The throughput shall be measured at the packaging step of each process line and shall take into account product that has been manufactured during the 24-hour period.

[IDAPA 58.01.01.405.01, 5/1/94]

5.7 Air Pollution Control Parameters

The permittee shall monitor and record the parameters listed below to demonstrate compliance with air pollution control equipment requirements for Prime 1 fryer air washer, Prime 2 fryer air washer, the Tot fryer air washer, and the Parfry fryer air washer.

- Air-washer fan is operable. Verify once daily and record status.
- Spray-water pump is operable. Verify once daily and record status.
- Spray-water pump pressure. Measure once daily and record pressure.
- Maintenance activities. Record date and description.

[IDAPA 58.01.01.405.01, 5/1/94]

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Permittee: McCain Foods Inc.

Date Issued: November 7, 2002

Location: Burley, Idaho

5.8 Operations and Maintenance Manual

Within 180 days of issuance of this permit, the permittee shall have developed an O&M manual for the fryer air washers (air pollution control devices). The O&M manual shall describe the procedures that will be followed to insure proper operation of the fryer air washers.

[IDAPA 58.01.01.405.01, 5/1/94]

AIR QUALITY TIER II OPERATING AND PERMIT TO CONSTRUCT NUMBER: 031-00014

Permittee: McCain Foods Inc.
Location: Burley, Idaho

Date Issued: November 7, 2002

6. BATTER ROOM**6.1 Process Description**

Several of the potato products are battered. The batter is prepared from various dry ingredients, such as flour and seasonings, in a designated room located in Burley Plant 2. Particulate matter is filtered from the air in the Batter Room by a dust-collection system.

6.2 Control Description

Emissions from the Batter Room are controlled by a package baghouse unit that consists of a group of filter elements that are mounted in an airbox. Exhaust from the dust-collection system is vented to the atmosphere via a horizontal duct (E209).

Table 6.1 EMISSIONS UNIT DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point
Batter Room	Dust collector (baghouse)	E209

Emissions Limits**6.3 Emissions Limits**

The PM₁₀ emissions from the Batter Room stack shall not exceed any corresponding emissions rate limits listed in this permit.

Operating Requirements**6.4 Baghouse Pressure Drop**

The pressure drop across the baghouse shall be maintained within manufacturer specifications.

[IDAPA 58.01.01.401, 5/1/94]

Monitoring and Recordkeeping Requirements**6.5 Baghouse**

The permittee shall inspect the Batter Room dust-collector filters once per month for tears and holes. The filters shall be replaced as needed. The filter status shall be recorded.

[IDAPA 58.01.01.401, 5/1/94]

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7. EMERGENCY FIRE PUMP**7.1 Process Description**

A diesel fire pump is utilized at to create water pressure for emergency fire-fighting efforts. The 170-horsepower pump is connected to the Snake River and is located in a small building north of Burley Plant 1. In addition to emergency situations, the emergency fire pump is operated once a week, for approximately two hours, to insure that the unit is functioning properly. The exhaust is discharged to the atmosphere by means of a horizontal stack (E001) located on the north side of the fire pump house.

7.2 Control Description

Emissions from the emergency fire pump are uncontrolled.

Table 7.1 EMISSIONS UNIT DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point
Emergency fire pump	None	E001

Emissions Limits**7.3 Emissions Limits**

Particulate matter, PM₁₀, SO₂, NO_x, CO, and VOC emissions from the emergency fire pump stack (E001) shall not exceed any corresponding emissions rate limits listed in this permit.

Operating Requirements**7.4 Hours of Operation**

The maximum hours of operation for the emergency fire pump shall not exceed two hours per week, except during an emergency. The total number of hours of operation for the emergency fire pump shall not exceed 104 hours for any consecutive 12-month period, except during an emergency.

[IDAPA 58.01.01.401, 5/1/94]

7.5 Fuel Specification

The emergency fire pump shall be fired exclusively by No. 2 diesel fuel. The sulfur content of the No. 2 diesel fuel shall be less than 0.5% by weight.

[IDAPA 58.01.01.728, 5/1/94]

Monitoring and Recordkeeping Requirements**7.6 Hours of Operation**

The permittee shall monitor and record the date and the number of hours of operation of the emergency fire pump to verify compliance with the operating parameters previously stated.

[IDAPA 58.01.01.401, 5/1/94]

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8. EMISSION RATE LIMITS

The following table provides the emission rate limits for specific sources regulated in this permit:

Table 8.1 EMISSIONS RATE LIMITS

McCain Foods, Burley Emission Limits ^a - Hourly ^b (lb/hr), and Annual ^c (T/yr)										
Source Description	Hourly PM ₁₀ ^d Emissions (lb/hr)	Annual PM ₁₀ ^d Emissions (T/yr)	NO _x		CO		VOC		SO ₂	
			lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
(B101) Murray 1 boiler	0.75	4.18	--	55.00	--	46.20	--	3.03	--	0.33
(B102) Nebraska 1 boiler	0.71		--		--		--		--	
(B202) Nebraska 2 boiler	0.58		--		--		--		--	
(B203) Murray 2 boiler	0.29		--		--		--		--	
(D105 & D106) Prime 1 dryer	6.69	21.67	--	5.74	--	13.99	--	0.21	--	0.02
(D107) Tot dryer	2.00	6.48	--	2.30	--	5.60	--	0.08	--	0.01
(D205 - D208) Prime 2 dryer	5.63	18.23	--	9.18	--	22.38	--	0.33	--	0.04
(F103) Tot fryer	4.08	13.22	--	--	--	--	--	3.89	--	--
(F104) Prime 1 fryer	2.68	8.67	--	--	--	--	--	8.67	--	--
(F108) Parfry fryer	1.30	4.21	--	--	--	--	--	1.24	--	--
(F204) Prime 2 fryer	2.25	7.29	--	--	--	--	--	7.29	--	--
(E209) Batter Room collector	0.12	0.53	--	--	--	--	--	--	--	--
(E001) Emergency fire pump	0.37	0.02	--	0.27	--	0.06	--	0.02	--	0.02

^a As determined by a pollutant-specific U.S. EPA reference method, a Department-approved alternative, or as determined by the Department's emissions estimation methods used in this permit analysis.

^b Hourly limits are a 24-hour average.

^c As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour emission rate by the allowable hours per year that the process(es) may operate(s), or by actual annual production rates.

^d Includes condensibles.

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9. FACILITY-WIDE EMISSION INVENTORY

The following table lists the potential emissions for criteria air pollutants for this facility. This table is provided for information purposes only.

Table 9.1 EMISSION INVENTORY

McCain Foods, Burley Emission Limits ^a - Hourly (lb/hr), and Annual ^b (T/yr)										
Source Description	Hourly PM ₁₀ ^c Emissions (lb/hr)	Annual PM ₁₀ ^c Emissions (T/yr)	NO _x		CO		VOC		SO ₂	
			lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
(B101) Murray 1 boiler	0.75	4.18	9.80	55.00	8.24	46.20	0.54	3.03	0.06	0.33
(B102) Nebraska 1 boiler	0.71		9.37		7.87		0.52		0.06	
(B202) Nebraska 2 boiler	0.58		7.65		6.43		0.42		0.05	
(B203) Murray 2 boiler	0.29		3.83		3.22		0.21		0.02	
(D105 & D106) Prime 1 dryer	6.69	21.67	2.10	5.74	5.12	13.99	0.08	0.21	0.01	0.02
(D107) Tot dryer	2.00	6.48	0.60	2.30	1.46	5.60	0.02	0.08	0.002	0.01
(D205 - D208) Prime 2 dryer	5.63	18.23	7.20	9.18	17.55	22.38	0.26	0.33	0.03	0.04
(F103) Tot fryer	4.08	13.22	--	--	--	--	1.20	3.89	--	--
(F104) Prime 1 fryer	2.68	8.67	--	--	--	--	2.68	8.67	--	--
(F108) Parfry fryer	1.30	4.21	--	--	--	--	0.38	1.24	--	--
(F204) Prime 2 fryer	2.25	7.29	--	--	--	--	2.25	7.29	--	--
(E209) Batter Room collector	0.12	0.53	--	--	--	--	--	--	--	--
(E001) Emergency fire pump	0.37	0.02	5.27	0.27	1.14	0.06	0.43	0.02	0.35	0.02

^a As determined by a pollutant-specific U.S. EPA reference method, a Department-approved alternative, or as determined by the Department's emissions estimation methods used in this permit analysis.

^b As determined by multiplying the actual or allowable (if actual is not available) pound per hour emission rate by the allowable hours per year that the process(es) may operate(s), or by actual annual production rates.

^c Includes condensibles.

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10. GENERAL PROVISIONS

1. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the *Rules for the Control of Air Pollution in Idaho*, and the Environmental Protection and Health Act, Idaho Code §39-101 et seq.
2. The permittee shall at all times (except as provided in the *Rules for the Control of Air Pollution in Idaho*) maintain and operate in good working order all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
3. The permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
 - To enter upon the permittee's premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
 - At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and to require stack emissions testing (i.e., performance tests) in conformance with state-approved or accepted EPA procedures when deemed appropriate by the Director.
4. Except for data determined to be confidential under Section 9-342A *Idaho Code*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Department of Environmental Quality.
5. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
6. In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter; a copy of which shall be forwarded to the Director.
7. This permit shall be renewable on the expiration date, provided the permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit such information within 60 days after receipt of the Director's request shall cause the permit to become void.
8. The Director may require the permittee to develop a list of operation and maintenance procedures to be approved by the Department. Such list of procedures shall become a part of this permit by reference, and the permittee shall adhere to all of the operation and maintenance procedures contained therein.
9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.